



RECEIVED

AUG 02 2001

Technology Center 2600

Sheet 1 of 3

| | | | |
|--|---|------------------------------------|--------------------------|
| FORM PTO-1449 (Rev. 7-80) | U.S. Dept. of Commerce Patent and Trademark Office | Atty Docket No. 24096 .00700 | Serial No. 09/675,488 |
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | Applicant Kozlowski, Lester J.. | |
| | | Filing Date September 29, 2000 | Group 2622 |
| | | | |

U.S. PATENT DOCUMENTS

| *Examine r Initials | | Document Number | Date | Name | Class | Subclass | Filing Date |
|---------------------------|----|--------------------|----------|------------------------|-------|----------|-------------|
| <i>jin</i> | AA | Re 34,908 | 9/5/00 | Wyles, et al | 250 | 208.1 | |
| <i>jin</i> | AB | 4,249,122 | 2/3/81 | Widlar | 223 | 313 | |
| <i>jin</i> | AC | 4,463,383 | 7/31/84 | Sonoda, et al | 358 | 212 | |
| <i>jin</i> | AD | 4,466,018 | 8/14/84 | Sonoda, et al | 358 | 213 | |
| <i>jin</i> | AE | 4,676,761 | 6/30/87 | Poujois | 445 | 3 | |
| <i>jin</i> | AF | 4,794,247 | 12/27/88 | Stineman, et al | 250 | 214A | |
| <i>jin</i> | AG | 5,043,820 | 8/27/91 | Wyles, et al | 358 | 213.8 | |
| <i>jin</i> | AH | 5,083,016 | 1/21/92 | Wyles, et al | 250 | 208.1 | |
| <i>jin</i> | AI | 5,345,266 | 9/6/94 | Denyer, et al | 348 | 300 | |
| <i>jin</i> | AJ | 5,296,696 | 3/22/94 | Uno, M. | 250 | 208.1 | |
| <i>jin</i> | AK | 5,471,515 | 11/28/95 | Fossum, et al | 377 | 60 | |
| <i>jin</i> | AL | 5,576,763 | 11/19/96 | Ackland, et al | 348 | 308 | |
| <i>jin</i> | AM | 5,541,402 | 7/30/96 | Ackland, et al | 250 | 208.1 | |
| <i>jin</i> | AN | 5,587,596 | 12/24/96 | Chi, et al | 257 | 233 | |
| <i>jin</i> | AO | 5,608,243 | 3/4/97 | Chi, et al | 257 | 244 | |
| <i>jin</i> | AP | 5,055,667 | 10/08/91 | Sayag | 250 | 208.1 | |
| <i>jin</i> | AQ | 5,128,534 | 7/7/92 | Wyles, et al | 250 | 208.1 | |
| <i>jin</i> | AR | 5,146,302 | 9/8/92 | Kumada | 357 | 24 | |
| <i>jin</i> | AS | 5,382,977 | 1/17/95 | Kozlowski, et al | 348 | 300 | |
| <i>jin</i> | AT | 5,627,112 | 5/6/97 | Tennant, et al | 438 | 113 | |
| <i>jin</i> | AU | 5,665,959 | 9/9/97 | Fossum, et al | 250 | 208.1 | |
| <i>jin</i> | AV | 5,929,434 | 7/27/99 | Kozlowski, et al | 250 | 214A | |
| <i>jin</i> | AW | 5,933,190 | 8/3/99 | Dierickx, et al | 348 | 302 | |
| <i>jin</i> | AX | 6,064,431 | 5/16/00 | Ueno | 348 | 241 | |
| <i>jin</i> | AY | RE 34,802 | 11/29/94 | Sayag, et al | 250 | 208.1 | |
| <i>jin</i> | BA | 6,001,668 | 12/14/99 | Anagnostopoulos, et al | 438 | 70 | |
| <i>jin</i> | BB | 5,898,168 | 4/27/99 | Gowda, et al | 250 | 208.1 | |

FOREIGN PATENT DOCUMENTS

| | | Document Number | Date | Country | Class | Subclass | Translation | |
|--|--|--------------------|------|---------|-------|----------|-------------|----|
| | | | | | | | Yes | No |
| | | | | | | | | |
| | | | | | | | | |



RECEIVED

AUG 02 2001

Technology Center 2600

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|----|----|---|
| in | BC | R.H. Dyck and G.P. Weckler, "Integrated Arrays Of Silicon Photodetectors For Image Sensing", IEEE Trans. Electron Devices, ED-15, April 1968, pp.196-201 |
| in | BD | J.D. Plummer and J.D. Meindl, "MOS Electronics For A portable Reading Aid For The Blind", IEEE J. Solid-State Circuits, SC-7, April 1972, pp. 111-119 |
| in | BE | N. Koikke, I. Takemoto, K. Satoh, S. Hanamura, S. Nagahara and M. Kubo, "MOS Area Sensor: Part I - Design Consideration And Performance Of An n-p-n Structure 484 x 384 Element Color MOS Imager", IEEE Trans Electron Devices, ED-27 (8), August 1980, pp. 1676-1681 |
| in | BF | S. Ohba, M. Nakai, H. Ando, S. Hanamura, S. Shimada, K. Satoh, K. Takahashi, M. Kubo and T. Fujita, "MOS Area Sensor: Part II - Low-Noise MOS Area Sensor With Antiblooming Photodiodes", IEEE Trans. Electron Devices, ED-27 (8) August 1980, pp. 1682-1687 |
| in | BG | EG&G Reticon Sales Catalog, Image Sensing and Solid State Camera Products 1994/1995. Solid State Image Sensor Array Specification For Part No: RA0256B |
| in | BH | EG&G Reticon Sales Catalog, Image Sensing and Solid State Camera Products 1994/1995. High-Speed Solid State Image Sensor Array Specification For Part No: RA2568N |
| in | BI | EG&G Reticon Sales Catalog, Image Sensing and Solid State Camera Products 1994/1995. Solid State Sensor Arrays Specification For Part Nos: RA0100A/RA0128N |
| in | BJ | H. Ando, S. Ohba, M. Nakai, T. Ozaki, M. Ozawa, K. Ikeda, T. Masuhara, T. Imaide, I. Takemoto, T. Suzuki and T. Fukita, "Design Consideration And Performance Of A New MOS Imaging Device", IEEE Trans. On Elec. Dev., ED-32 (8), August 1985, pp. 1484-1489 |
| in | BK | N. Tanaka, T. Ohmi and Y. Nakamura, "A Novel Bipolar Imaging Device With Self-Noise Reduction Capability", IEEE Trans. Elec. Dev., 36 (1), January 1989, pp. 31-38 |
| in | BL | G.P. Weckler, "Storage Mode Operation Of A Phototransistor And Its Adaptation To Integrated Arrays For Image Detection", IEDM, October 1996. (Abstract Only - No known paper available from professional document delivery services) |
| in | BM | N. Tanaka, T. Ohmi, Y. Nakamura and S. Matsumoto, "A Low-Noise Bi-CMOS Linear Imager Sensor With Auto-Focusing Function", IEEE Trans. Elec. Dev., 36 (1), January 1989, pp. 39-45 |
| in | BN | N. Tanaka, S. Hashimoto, M. Shinohara, S. Sugawa, m. Morishita, S. Matsumora, Y. Nakamura and T. Ohmi, "A 310k Pixel Bipolar Imager (BASIS), ISSCC 1989 |
| in | BO | G.P. Weckler, "Charge Storage Lights The Way For Solid-State Image Sensors", Electronics, May 1, 1967, pp. 75-78 |
| in | BP | G.P. Weckler, "Operation of p-n Junction Photodetectors In A Photon Flux Integrating Mode", IEEE Journal Of solid State Circuits, Vol. SC-2, No. 3, September 1967, pp. 65-73 |
| in | BQ | G.P. Weckler and R.H. Dyck, "Integrated Arrays Of Silicon Photodetectors For Image Sensing", WESCON, August 22-25, 1967, pp. 1-8 |
| in | BR | L.J. Kozlowski, J. Luo, W.E. Kleinhans and T. Lui, "Comparison Of Passive And Active Pixel Schemes For CMOS Visible Imagers", SPIE, Vol. 3360, April 1998 |
| in | BS | Ming-Jer Chin, Yen-Bin Gu, Terry Wu, Po-Chin Hsu and Tsung-Hann Liu, "Weak Inversion Charge Injection In Analog MOS Switches", IEEE Journal Of Solid-State Circuits, Vol. 30, No. 5, May 1995, pp. 604-606 |
| in | BT | Peter W. Fry, Peter J. W. Noble and Robert J. Rycroft, "Fixed-Pattern Noise In Photomatrices", IEEE Journal Of Solid-State Circuits, Vol. SC-5, No. 5, October 1970, pp. 250-254 |
| in | BU | Degrauwe, et al., "A Micropower CMOS-Instrumentation Amplifier", IEEE Journal Of Solid-State Circuits, Vol. SC-20, No. 3 June 1985, pp. 805-807 |



| | | |
|---|----|--|
| <i>in</i> | BV | Letter Dated July 31, 1998, From Gene Weckler, RAD-ICON IMAGING CORP., addressed to Mark Wettler |
| | BW | Chamberlin, et al., "A Novel Wide Dynamic Range Silicon Photodetector And Linear Imaging Array", IEEE Transactions On Electron Devices, Vol. ED-31, No. 2, February 1984, pp. 175-182 |
| <i>in</i> | BX | L.J. Kozlowski, D. Standley, J. Luo, A. Tomasini, A. Gallagher, R. Mann, B.C. Hsieh, T. Liu and W.E. Kleinhans, "Theoretical Basis And Experimental Confirmation: Why A CMOS Imager Is Superior To A CD", SPIE Conference On Infrared Technology And Applications XXV, Orlando, Fla, April 1999, Vol. 369, pp. 388-396 |
| <i>in</i> | BY | Mendis, et al., "A 128 x 128 CMOS Active Pixel Image Sensor For Highly Integrated Imaging Systems," IEEE Electron Device Meeting, p. 583, 1993 |
| Examiner <i>[Signature]</i> | | Date Considered 9-16-03 |
| *Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw Line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | |

RECEIVED

AUG 02 2001

Technology Center 2600



COPY OF PAPERS
ORIGINALLY FILED

Sheet 1 of 1

| | | | | | | | | |
|---|----|---|----------|------------------------------------|-------|--------------------------|-------------|----|
| FORM PTO-1449 (Rev. 7-80) | | U.S. Dept. of Commerce Patent and Trademark Office | | Atty Docket No. 24096 .00700 | | Serial No. 09/675,488 | | |
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | Applicant Kozlowski, Lester J.. | | | | |
| | | | | Filing Date September 29, 2000 | | Group 2622 | | |
| | | | | | | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | |
| *Examine r Initials | | Document Number | Date | Name | Class | Subclass | Filing Date | |
| <i>zm</i> | AA | 5,461,425 | 10/24/95 | Fowler, et al | 348 | 214 | 2/15/94 | |
| <i>zm</i> | AB | 5,892,540 | 4/6/99 | Kozlowski, et al | 348 | 300 | 6/13/96 | |
| <i>zm</i> | AC | 6/043,525 | 3/28/00 | Chen | 257 | 292 | 12/15/98 | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| | | Document Number | Date | Country | Class | Subclass | Translation | |
| | | | | | | | Yes | No |
| | | | | | | | | |
| OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | |
| <i>zm</i> | AD | Copy of PCT Search Report | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Examiner <i>Ayan / Maku</i> | | | | Date Considered 9-16-03 | | | | |
| *Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | | |

RECEIVED

MAR 07 2002

Technology Center 2600



COPY OF PAPERS
ORIGINALLY FILED

Sheet 1 of 1

| | | | | | | | | |
|---|----|---|----------|------------------------------------|-------|--------------------------|-------------|----|
| FORM PTO-1449 (Rev. 7-80) | | U.S. Dept. of Commerce Patent and Trademark Office | | Atty Docket No. 24096 .00700 | | Serial No. 09/675,488 | | |
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | | | Applicant Kozlowski, Lester J.. | | | | |
| | | | | Filing Date September 29, 2000 | | Group 2622 | | |
| | | | | | | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | |
| *Examine Initials | | Document Number | Date | Name | Class | Subclass | Filing Date | |
| <i>jm</i> | AA | 5,461,425 | 10/24/95 | Fowler, et al | 398 | 299 | 2/15/94 | |
| <i>jm</i> | AB | 5,892,540 | 4/6/99 | Kozlowski, et al | 398 | 300 | 6/13/96 | |
| <i>jm</i> | AC | 6/043,525 | 3/28/00 | Chen | 257 | 292 | 12/15/98 | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| | | Document Number | Date | Country | Class | Subclass | Translation | |
| | | | | | | | Yes | No |
| | | | | | | | | |
| OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | | |
| <i>jm</i> | AD | Copy of PCT Search Report | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Examiner <i>[Signature]</i> | | | | Date Considered 9-16-03 | | | | |
| *Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw Line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | | |

RECEIVED
MAR 07 2002
Technology Center 2600